Date: Wed, 1 Sep 93 04:30:02 PDT
From: Packet-Radio Mailing List and Newsgroup <packet-radio@ucsd.edu>
Errors-To: Packet-Radio-Errors@UCSD.Edu
Reply-To: Packet-Radio@UCSD.Edu
Precedence: Bulk
Subject: Packet-Radio Digest V93 #257
To: packet-radio

Packet-Radio Digest   Wed, 1 Sep 93   Volume 93 : Issue 257

Today's Topics:

(none)
?s
CAPRA:Need German Transl
Comments please on MFJ 1270B and 1274 TNC's
DRSI TNC - Need Info?
Ethernet<->Packet, is it possible??
Frequency Forum
Gracilis help?
Packet Poltergeists ? (2 msgs)
PK-232 with KISS (2 msgs)
X1-G, H, or J using 2 two 27256 EPROMS

Send Replies or notes for publication to: <Packet-Radio@UCSD.Edu>
Send subscription requests to: <Packet-Radio-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Packet-Radio Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/packet-radio".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 31 Aug 93 22:06:49 GMT
From: news-mail-gateway@ucsd.edu
Subject: (none)
To: packet-radio@ucsd.edu

PACKET-RADIO-REQUEST@@WSMR-SIMTEL20.ARMY.MIL

Date: 1 Sep 93 08:46:52 GMT
From: news-mail-gateway@ucsd.edu
Subject: ?s

To: packet-radio@ucsd.edu

help

Date: 1 Sep 93 04:30:59 GMT
From: news-mail-gateway@ucsd.edu
Subject: CAPRA:Need German Transl
To: packet-radio@ucsd.edu

CAPRA, the Chicago Area Packet Radio Association, has received information about 23cm microwave digital transceivers and other equipment from a group of German amateurs.

We now have about 80 pages of documentation, theory, schematics, and other information which details the equipment which has been developed by this group of hams.

Unfortunately, all of the information is in German. We haven't found any volunteers - at least not yet, in our area, who would be willing to provide a translation for the material.

If you would considering offering your services, we would be most grateful.

To discuss the matter, please call me at (708) 253-0046 in NW suburban Chicago. In not here, I'll return your call at whatever time is convenient for you.

One note - the materials are obviously of a technical nature; we suspect that a knowledge of basic German, while helpful, will be inadequate. However, if you are you are quite fluent in the language or have a strong technical background, this may be sufficient.

73 de Jim Chesner, Vice President - CAPRA

```
N9GBH@N9HSI.IL.USA.NOAM     jchesner@holonet.net
70040.125@compuserve.com    n9gbh%n9gbh.ampr.org@ke9yq.ampr.org
```

Date: 1 Sep 93 05:15:16 GMT
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!howland.reston.ans.net!darwin.sura.net!rouge!cfm1471@network.ucsd.edu
Subject: Comments please on MFJ 1270B and 1274 TNC's
To: packet-radio@ucsd.edu

>The 1274 is a multi-mode modem. The hardware is very simple -- a rather
>crude PLL type modulator/demodulator with raw serial input/output to
>two of the miscellaneous control lines of the serial interface to the
>host computer. ALL the decoding is done by a software program (supplied)
>in the host PC. This means you MUST use a standard IBM clone.
>
>Note that the 1274 does not use the TXD and RXD bits to send and recieve
>the serial data, but uses some handshake lines (I forget which ones)
>with the PC doing some kind of parallel poll to do the decoding.
>This means if your PC's serial interface is in any way non-standard,
>it might not work. Mine didn't. I later found out that one of the
>wires on the connector was mis-wired. However, it worked fine with
>my Hayes-compatible modem and my Kantronics TNC.
>
>The 1274 has no pre-filtering of the received signal. To get decent
>performance on RTTY, CW, FAX, etc. I would recommend some kind of
>external filter ahead of the unit. Either selectible IF filters in
>your HF transceiver or perhaps a variable-bandwidth audio filter
>like the W9GR DSP unit.
>

Alan, i think you have the 1274 mixed up with another tnc from MFJ.
Isnt the 1274 the same as the 1270 except it gives you the HF tuning
indicator?

Charlie

```
Charles Morrison KI5XP                        Internet: ki5xp@ucs.usl.edu
U. of Southwestern La.                        Internet: cfm1471@ucs.usl.edu
Lafayette, La.  70506                           Packet: KI5XP@K5ARH.LA
(318) 988-3821

          ****** Field Day (2A): W5DDL #2 in 92, #1 in '93 ******
```

Date: Mon, 30 Aug 1993 08:28:21 +0000
From: news!demon!llondel.demon.co.uk!dave@uunet.uu.net
Subject: DRSI TNC - Need Info?
To: packet-radio@ucsd.edu

In article <3FZ29B1w165w@aznet.stat.com> dan@aznet.stat.com (Daniel J. Meredith)
writes:
>taylorjh@wmvx.dnet.dupont.com (John H. Taylor) writes:
>
>> Visiting my father this summer in Florida, I saw a DRSI TNC which was a
>> board for the "IBM" (Intel) PC. I wrote the company to try to get more
>> information about it; I am specifically interested in knowing whether or not

>> it has a KISS mode for TCP/IP. Of course, I would also be interested in
>> knowing what its performance is as a TNC.
>
>Hi There,
>   The DRSI inboard card does NOT have KISS mode. It requires a driver that
>is similar to WA8DED code. The most practical use is the G8BPQ switch with
>supports it and also many BBS software applications. The outboard DRSI units
>are TNC2 clones, and of course will respond to KISS mode.
>
>

The plug-in cards are directly supported by KA9Q TCP/IP. Have a closer look
at the 'attach scc' command.

Dave

```
*****************************************************************************
* G4WRW @ GB7WRW.#41.GBR.EU AX25     *    Start at the beginning. Go on     *
* dave@llondel.demon.co.uk  Internet *     until the end. Then stop.        *
* g4wrw@g4wrw.ampr.org      Amprnet  *      (the king to the white rabbit)  *
*****************************************************************************
```

Date: Thu, 26 Aug 1993 17:03:02 TUR
From: ghost.dsi.unimi.it!univ-lyon1.fr!news.imag.fr!ciril.fr!frmop11.cnusc.fr!
trearn!trmetu!ucoluk@tcgould.tn.cornell.edu
Subject: Ethernet<->Packet, is it possible??
To: packet-radio@ucsd.edu

Concerning the packet radio world I shall be considered as a newcomer.
So, I hope I will not hit a FAQ. The question follows:

Our aim is to open a segment of the ethernet to air. Since the air media
is quite the same of a wire (like it is with the ethernet) in theory
it should be possible. Ofcourse at a much much narrowed band width if
we are not speaking of 10s of GHz carriers.   We are ready to dedicate
a PC (386) on the real ethernet side that will interface the subject hardware
through its RS232 port if its not an add-on card.
 Now, is there any
hardware/software available that has the following properties:

1) Will operate with a 144 MHz Tranceiver.
2) SW for a IBM PC compatibles.
3) Standard packet driver on DOS, so will be supported by many LAN
   applications.
4) Expected to operate at 1200 Baud.
5) Interfaced by either the system bus or the RS232 port.

Any answer, including those which say that this is known by everybody,
and direct to a FAQ list, are welcome.

sincerely

-g.ucoluk

Date: 31 Aug 93 18:44:00 GMT
From: blkcat!news@uunet.uu.net
Subject: Frequency Forum
To: packet-radio@ucsd.edu

The Frequency Forum Bulletin Board System in Vienna, VA now carries
this UseNet newsgroup.

Jack Anderson, Sysop

Internet: janderson@ram.net
(alternate) jack.anderson@f239.n109.z1.fidonet.org

```
                    -*-SCANNER BBS for VA, MD, DC!-*-
        -*-The Frequency Forum-*-(703) 207-9622-*-9600/V.32/MNP-*-
-*-Files, Frequencies and Discussion for Scanner Hobbyists/Radio Amateurs-*
***
 * SLMR 2.1a *
```

Date: 31 Aug 1993 03:25:14 GMT
From: munnari.oz.au!metro!sequoia!csmall@uunet.uu.net
Subject: Gracilis help?
To: packet-radio@ucsd.edu

bwm@st.simbirsk.su (Vladimir Barmin) writes:

>Hello all,
>I am trying to attach Gracilis PackeTwin controller to UNIX software:
>ISC 3.0 or 386BSD but look like I need driver for this device. Can
>anyone help with it?

I'm going to have a similiar problem, this time with Linux. It looks like
the only viable way (for my programming level) is to kludge something into
Wampes.
I was hopingh there might be a discussion group about the PackeTwins somewhere,
so I don't have to repeat something that (hopefully) someone has already done.

  - Craig vk2xlz

```
--
//   /\     |    |   |  | |   ... Craig Small   [44.136.8.58] ... ...
||==|--|====|====|===|==|=|   ... INTERNET: csmall@uts.edu.au ... ...
\\   \/     |    |   |  | |   ... AMPR    : VK2XLZ@VK2XSB ... ... ...
```

Date: 31 Aug 93 12:13:27 GMT
From: ogicse!uwm.edu!psuvax1!psuvm!bds2@network.ucsd.edu
Subject: Packet Poltergeists ?
To: packet-radio@ucsd.edu

Last night I got a call from a neighboring ham to tell me my packet station was broadcasting bunches of ascii characters for several minutes on its own, with out having been connected to anyting. When he tried to connect, the station only sent out "]"'s to him. I am stumped as to the cause. The only thing I can think is that when it receives some packets that have non-text characters (like when local nodes are processing compressed mail), the terminal emulator on the PC starts to beep and clear the screen. Has anyone ever heard of that sort of garbage characters actually able to *initiate* a "packet storm" like what my station started? Needless to say, I don't leave it on unattended any more!

BTW, my setup:

MFJ1270 TNC
Tandy laptop PC running PC Plus terminal program
Azden PC3000-2m transceiver
2m 1/4 wave dipole in the attic.

Thanks for any help!

Brett N3EVB

Date: 31 Aug 93 18:37:10 GMT
From: psinntp!wlnntp.psi.com!usenet@uunet.uu.net
Subject: Packet Poltergeists ?
To: packet-radio@ucsd.edu

>DATE: 31 Aug 93 12:13:27 GMT
>FROM: BDS2@psuvm.psu.edu
>
>Last night I got a call from a neighboring ham to tell me my packet station
>was broadcasting bunches of ascii characters for several minutes on its own,

>with out having been connected to anyting. When he tried to connect, the
>station only sent out "]"'s to him. I am stumped as to the cause. The only
>thing I can think is that when it receives some packets that have non-text
>characters (like when local nodes are processing compressed mail), the
>terminal emulator on the PC starts to beep and clear the screen. Has anyone
>ever heard of that sort of garbage characters actually able to *initiate* a
>"packet storm" like what my station started? Needless to say, I don't leave it
>on unattended any more!
>
>BTW, my setup:
>
>MFJ1270 TNC
>Tandy laptop PC running PC Plus terminal program
>Azden PC3000-2m transceiver
>2m 1/4 wave dipole in the attic.
>
>Thanks for any help!
>
>Brett N3EVB

Well, I have a thought, as far as a general answer goes...

My guess is that something triggered the terminal emulator to transmit some sort of data. The TNC would then send this in UI frames.

By the way, if you set up the TNC to not monitor any traffic while not connected, you should be able to avoid this.

-Seth

Date: 31 Aug 1993 08:49:11 GMT
From: usc!yeshua.opl.com!news.kei.com!sol.ctr.columbia.edu!howland.reston.ans.net!agate!doc.ic.ac.uk!uknet!pipex!zaphod.crihan.fr!univ-lyon1.fr!cismhp.univ-lyon1.fr!cerdini@network.ucsd.edu
Subject: PK-232 with KISS
To: packet-radio@ucsd.edu

Dan Curry (pineapp@netcom.com) wrote:

:   I would like to know on what it will take to install KISS on
: a PK-232? I do not have the PK-232MBX ?

Someone have a documentation of Kiss protocol ? I'm going to programm a little gateway with my Unix system, but I have no doc...

--

Michel CERDINI BP5574 69247 Lyon Cedex 05 | E-Mail cerdini@cism.univ-lyon1.fr
 BBS/RTC Videotex ZENITH (8 acces) 24h/24 | AX25   F1ITS@FF2LY.FRHA.FRA.EU
Minitel: 7836.1996 - V32b/V42b: 7836.1001 |AmprNet F1ITS.AMPR.ORG [44.151.69.10]

Date: Tue, 31 Aug 93 00:17:32 -0400
From: psinntp!wlnntp.psi.com!usenet@uunet.uu.net
Subject: PK-232 with KISS
To: packet-radio@ucsd.edu

> I would like to know on what it will take to install KISS on
> a PK-232? I do not have the PK-232MBX ?

The firmware in the PK232 has had KISS in it for quite a long time.
Check your manual, or call AEA tech. support and give them the firmware
rev. number.

-Seth

Date: 1 Sep 93 10:00:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: X1-G, H, or J using 2 two 27256 EPROMS
To: packet-radio@ucsd.edu

Since there has been some chatter recently about TheNET X-1J on the newsgroup, and I never sent this out in the first place, now might be an appropriate time to do so...

- -

Mark Skelton, N7CTM and I came up with this modification for MFJ 1270Bs running TheNET X-1G. The motivation came from the fact that our parts drawers were bulging with 27256 ROMs and we had a less than effortless time finding 27512 EPROMs (as called for in the X-1G installation instructions). We saw no reason why it couldn't be done so we made it a nice project for the day after Christmas 1992. It shouldn't be done by someone who is unaware of which end of the iron is hot.

The mod has been reviewed solo by each of us. It has a number of steps all of which should be read and understood before you start. I have an MFJ 1270B in service as a NOS front-end using the mod. The operation has been as reliable as that using the specified 27512 I was using beforehand. It has now run for 10 months (a realistic trial period) with no more problems than the local NetRom and TheNET nodes.

That this will work for anyone else is not certain. No guarantee is expressed or implied by either Mark or I. We will assume no liability for equipment failures or damage caused by or occuring during the modification procedure or subsequent use. Your mileage will undoubtedly vary.

Reid, WB7CJO   Internet: Fletcher @ Moho.UWyo.Edu
                                           Amateur AX.25: WB7CJO @ N7MMC.WY.USA.NOAM

~~~~~~~ 2x27256~~.doc   8-Jan-1993 ~~~~~~

This modification will allow a user to install TheNET X-1G in an MFJ-1270B TNC using two 27256 EPROMS in lieu of the higher capacity 27512 EPROM. This may be desirable due to the availability or lower cost of the 27256 type ROMs.

All of the following steps can be performed on the bottom of the printed circuit board.

1) Install a jumper from U-23/pin-1 to U-24/pin-1.

2) Cut the trace running from U-24/pin-27 to U-25/pin-27.

3) Cut the trace running from U-24/pin-26 to U-24/pin 28.

4) Install a jumper from U-23/pin-27 to U-24/pin-27.

5) Install a jumper from U-24/pin-26 to U-23/pin-26. A trace from U-23/pin-26 runs by U-24/pin-26. A solder bridge from this trace to pin 26 on U-24 is easiest to do.

6) Cut the trace between U-12/pins 13 & 14.

7) Install a jumper from U-22/pin-16 to U-12/pin-13

8) Cut the trace running from U-13/pin-2 to U-24/pin-20. It is suggested that the cut be made on the bottom of the board at U-13 next to pin 2.

9) Install a jumper from U-12/pin-10 to U-24/pin-20.

10) TheNET X-1G binary is distributed as two 32K binary files. Normally the two files are combined and programmed into a single 27512 EPROM. For this modification the two binary files are programmed into each of two 27256 EPROMS. Insert the ROM containing the first binary file in the socket for U-23. Insert the ROM containing the second file in the U-24 socket.

Note: To restore the TNC to original operation as a TNC, remove the two X-1G ROMs in U-23 & U-24, install the original TNC2 ROM in U-23, remove the jumper from U-20/pin-16 to U-12/pin-13, and install a jumper between U-12/pins 13 & 14.
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End of Packet-Radio Digest V93 #257
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